

Appendix A2

$$\begin{aligned}\text{Volume "A"} &= (4/3 \times \pi \times R^3) - (\text{Vol "C"} + \text{Vol "D"} + \text{Vol "G"}) \\ &= 4/3 \times 3.14 \times (\frac{1}{2} \times 5.35")^3 - (0.37 \text{ in}^3 + 0.37 \text{ in}^3 + 6.58 \text{ in}^3) \\ &= 80.14 \text{ in}^3 - 7.33 \text{ in}^3 = 72.81 \text{ in}^3\end{aligned}\quad \frac{3}{5}$$

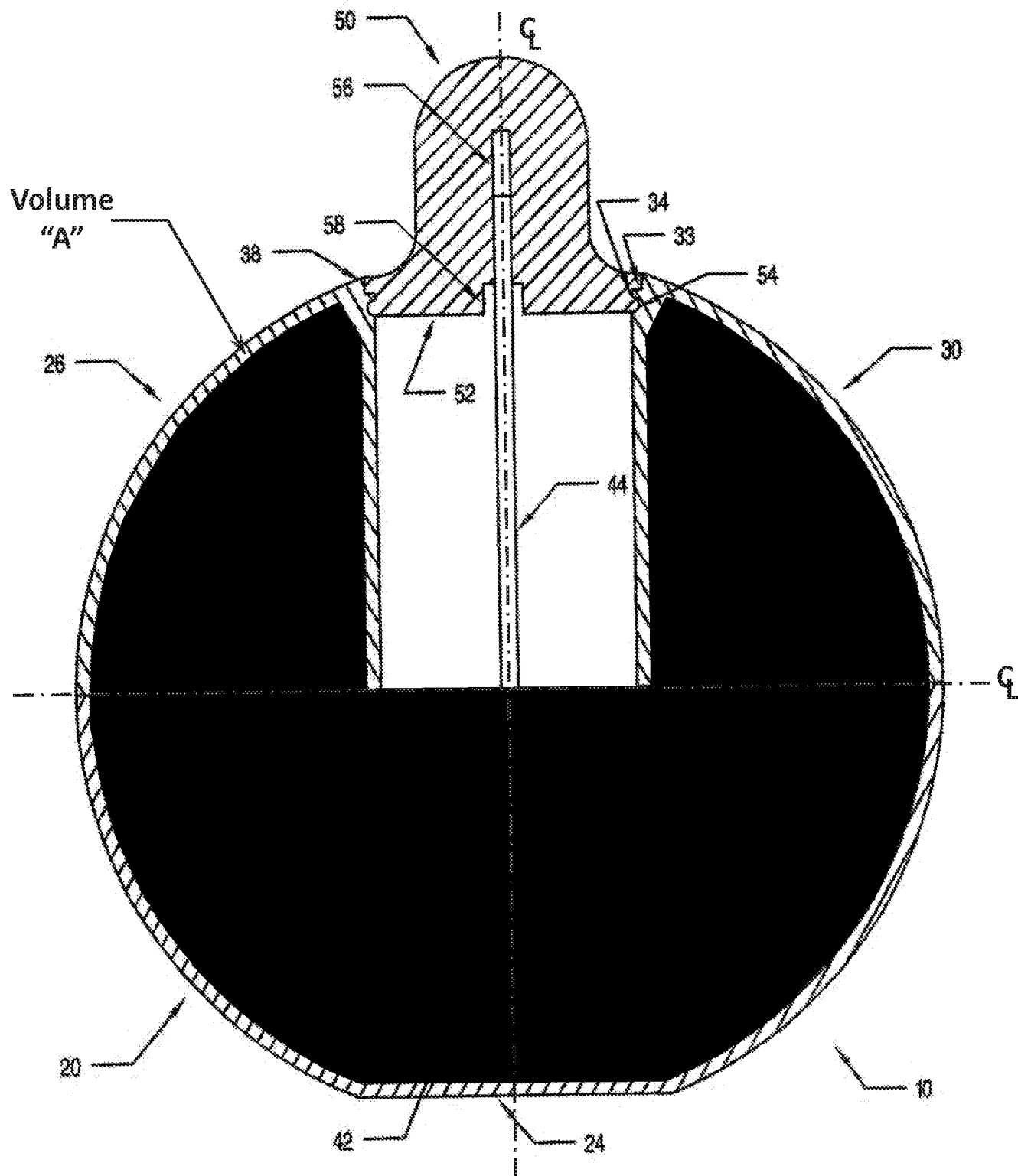


FIGURE 3A

Ratio of Vol "B"/Vol "A" = $28.33 \text{ in}^3 / 72.81 \text{ in}^3 = 0.39$, and $0.39 < \frac{1}{2}$. Or stated differently, 39% is less than 50%. Or stated yet differently, "a volume within said container occupied by said edible particulate candy substance defines a volume that is no more than one half of the resultant volume of said container volume minus said funnel volume".

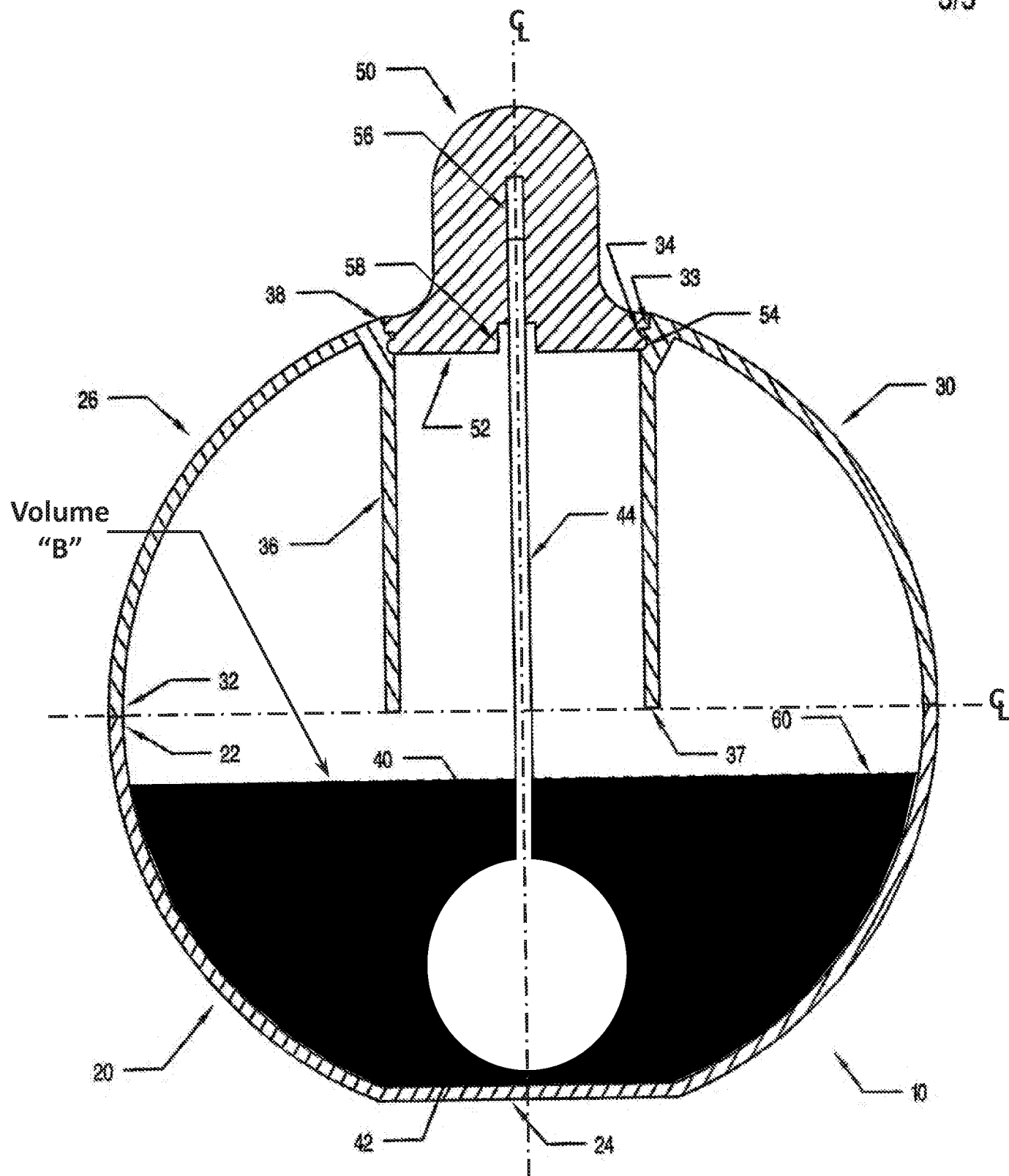


FIGURE 3A

$$\begin{aligned}
 \text{Volume "B"} &= \left(\frac{1}{2} \times \frac{4}{3} \times \pi \times R^3 \right) - (\text{Vol "C"} + \text{Vol "E"} + \text{Vol "F"} + \text{Vol "H"}) \\
 &= \frac{1}{2} \times \frac{4}{3} \times 3.14 \times \left(\frac{1}{2} \times 5.35'' \right)^3 - (0.37 \text{ in}^3 + 1.44 \text{ in}^3 + 0.006 \text{ in}^3 + 9.92 \text{ in}^3) \\
 &= 40.07 \text{ in}^3 - 11.74 \text{ in}^3 = 28.33 \text{ in}^3
 \end{aligned}$$

Appendix A4

Vol "G" = a cylinder having a dia. of approx 1.85" and a length of approx 2.45"

$$\text{Vol "G"} = \pi \times R^2 \times L = 3.14 \times (\frac{1}{2} \times 1.85")^2 \times 2.45" = 6.58 \text{ in}^3 \quad 3/5$$

Vol "H" = a cylinder
having a dia. of approx
(5.35" + 5.25")/2
and a length of approx 0.45"

$$\begin{aligned} \text{Thus Vol "H"} &= \\ \pi \times R^2 \times L &= \\ 3.14 \times (\frac{1}{2} \times 5.3")^2 \times 0.45" &= \\ &= 9.92 \text{ in}^3 \end{aligned}$$

Volume
"H"

Volume
"D"

$$\text{Vol "D"} = \text{Vol "C"}$$

Volume
"G"

Volume
"E"

Volume
"F"

Volume
"C"

$$\begin{aligned} \text{Vol "E"} &= \text{a sphere having} \\ &\text{a dia. of approx 1.40"} \\ \text{Thus Vol "E"} &= (\frac{4}{3} \times \pi \times R^3) \\ &= (\frac{4}{3} \times 3.14 \times (\frac{1}{2} \times 1.4)^3) \\ &= 1.44 \text{ in}^3 \end{aligned}$$

$$\begin{aligned} \text{Vol "F"} &= \text{a cylinder} \\ &\text{having a dia. of approx 0.125"} \\ &\text{and a length of approx 0.55"} \\ \text{Vol "F"} &= \pi \times R^2 \times L \\ &= 3.14 \times (\frac{1}{2} \times 0.125")^2 \times 0.55" \\ &= 0.006 \text{ in}^3 \end{aligned}$$

Vol "C" = a cylinder having a dia. of approx 1.95"
and a length of approx (0.25" + 0.0")/2

$$\text{Thus Vol "C"} = \pi \times R^2 \times L = 3.14 \times (\frac{1}{2} \times 1.95")^2 \times 0.125" = 0.37 \text{ in}^3$$

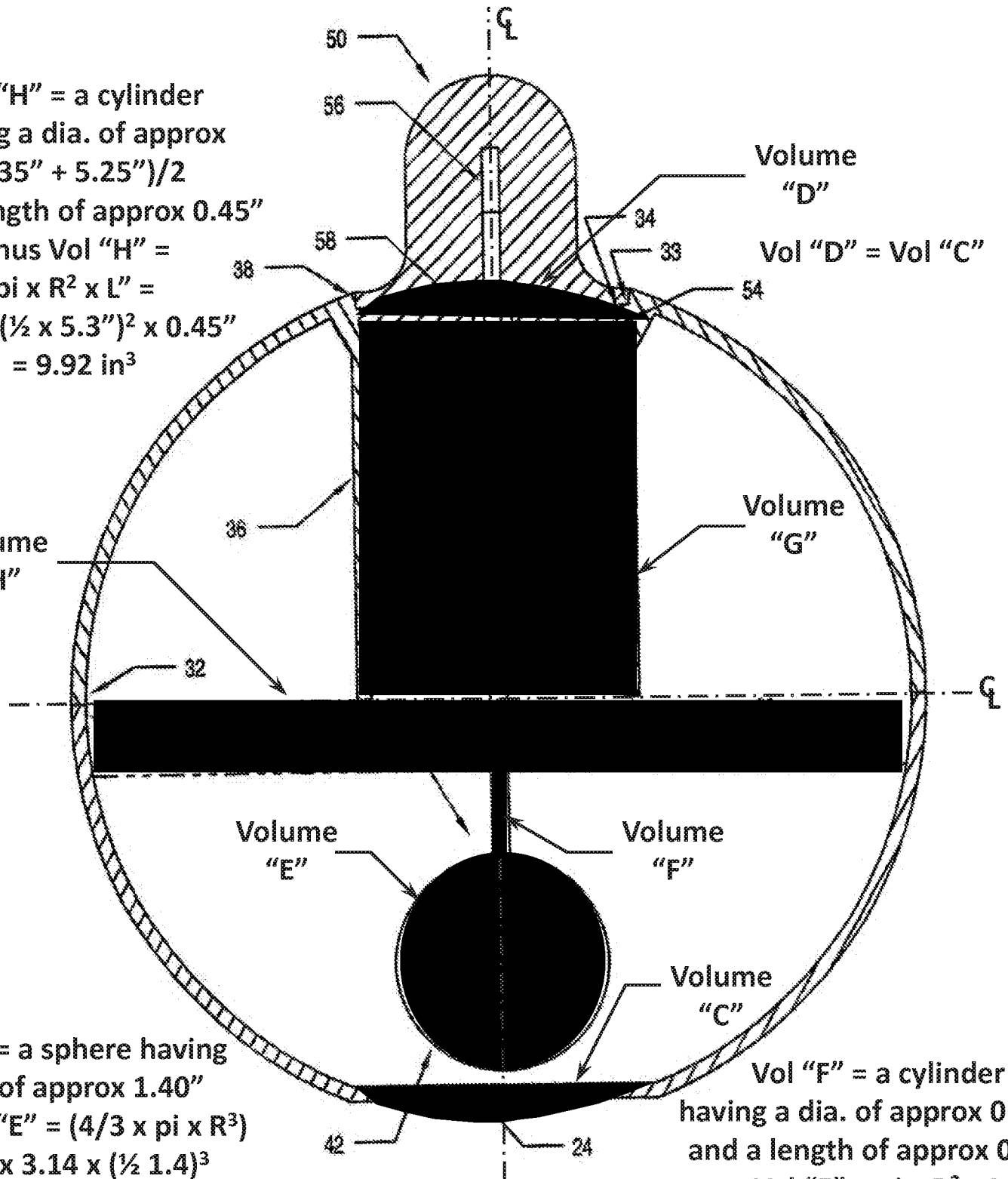


FIGURE 3A

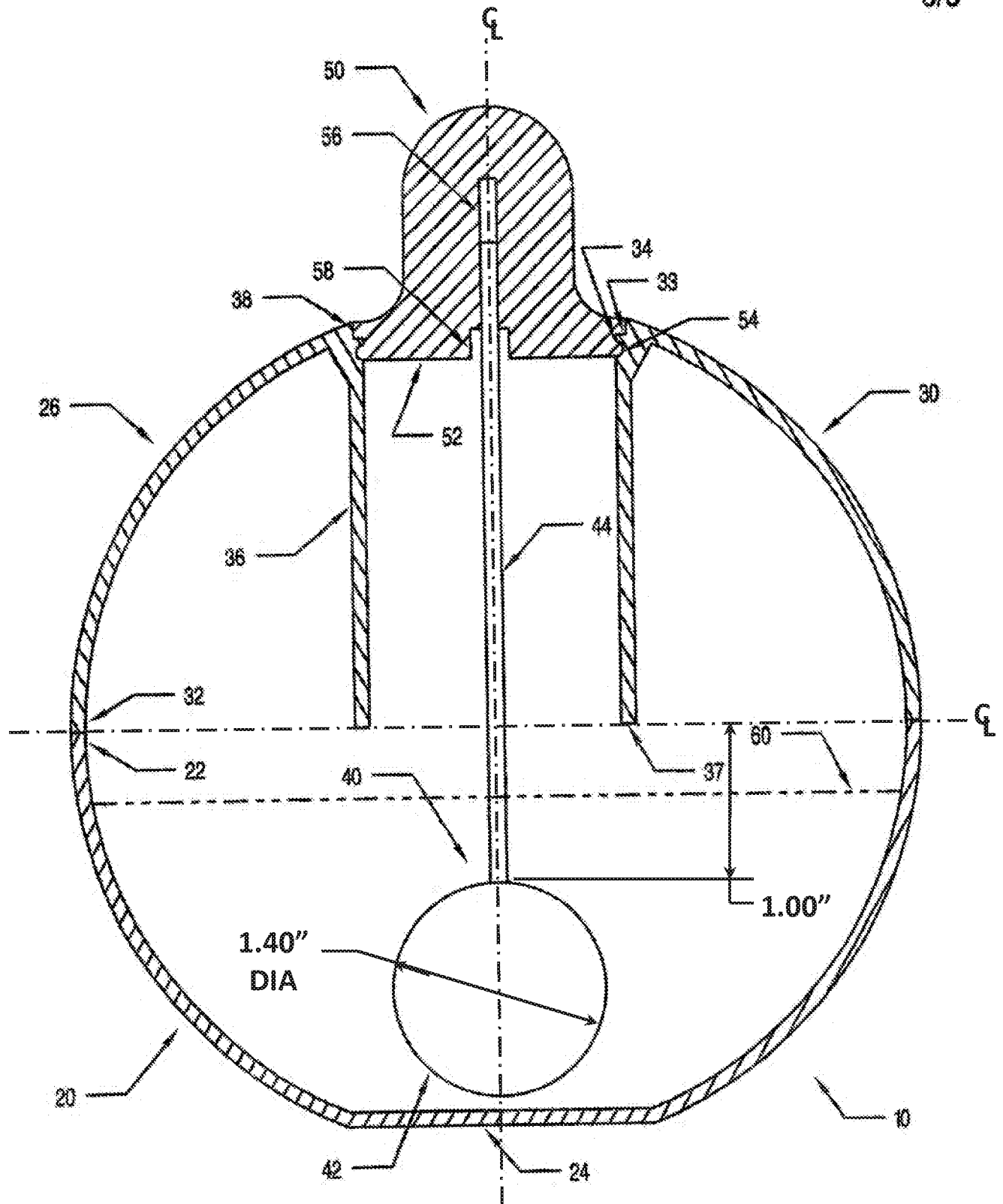


FIGURE 3A

$1.00''/1.40'' = 0.71$, and $0.71 > 0.5$. Or stated differently,
“said gap defines a distance between said funnel second open end and said
candy article that is at least half as large as any dimension of said candy article”.

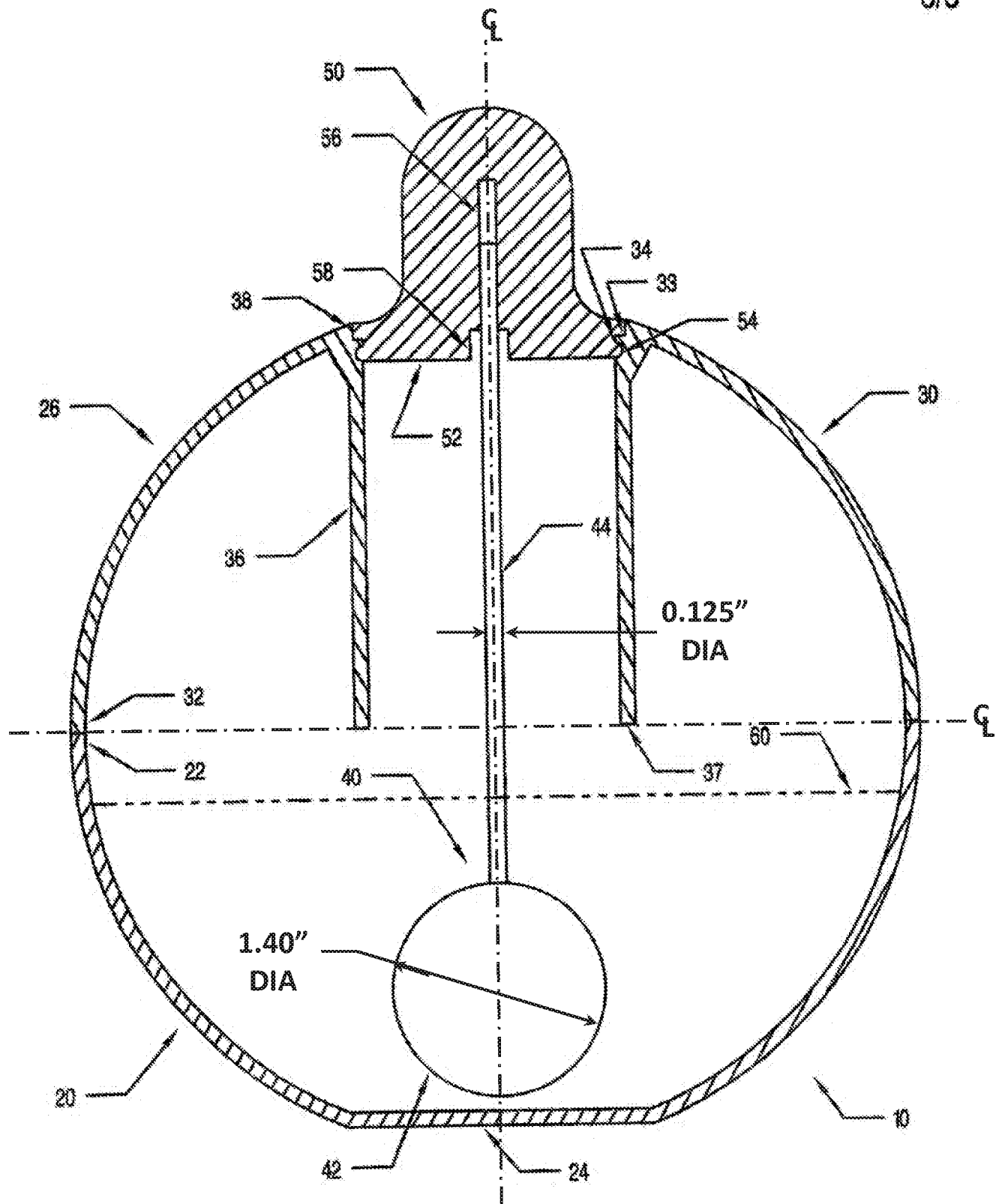


FIGURE 3A

$1.40''/0.125'' = 11.2$, and $11.2 > 4.0$. Or stated differently, "said diameter of said candy article is at least four times as large as a diameter of said handle".